FIG. 1

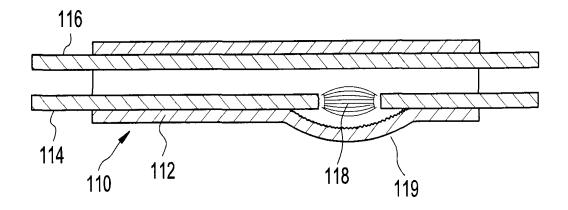
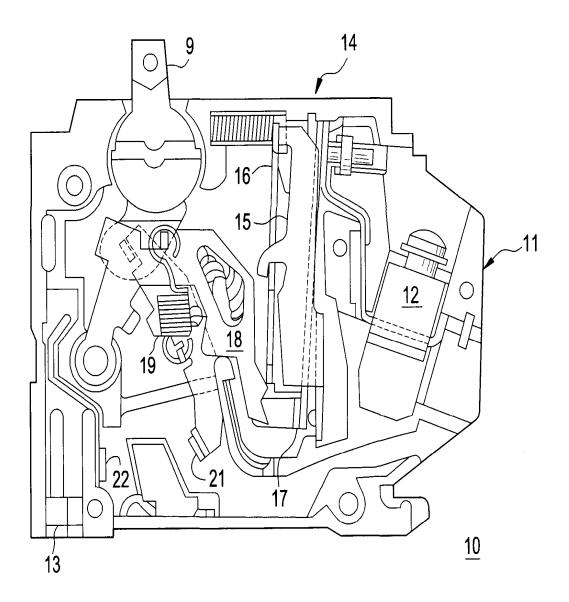
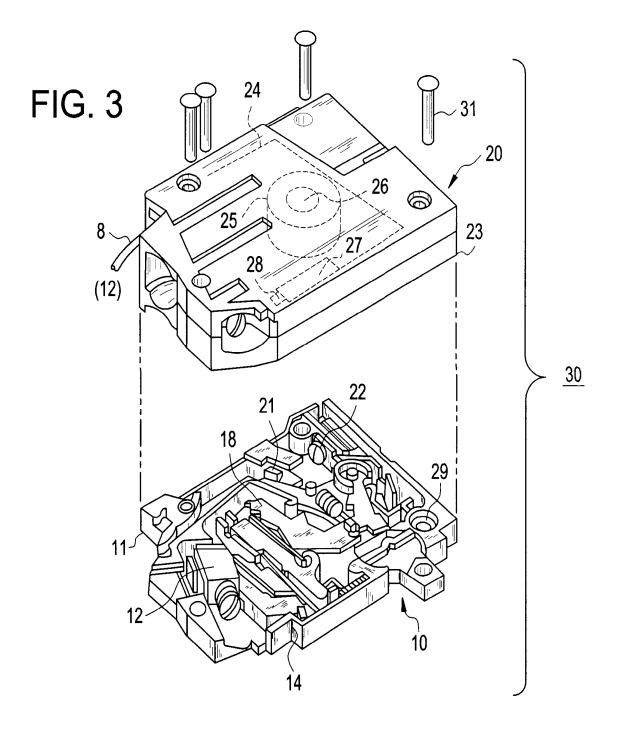
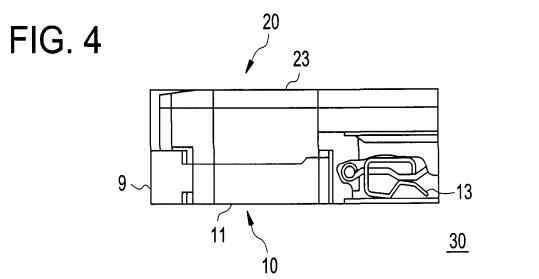


FIG. 2







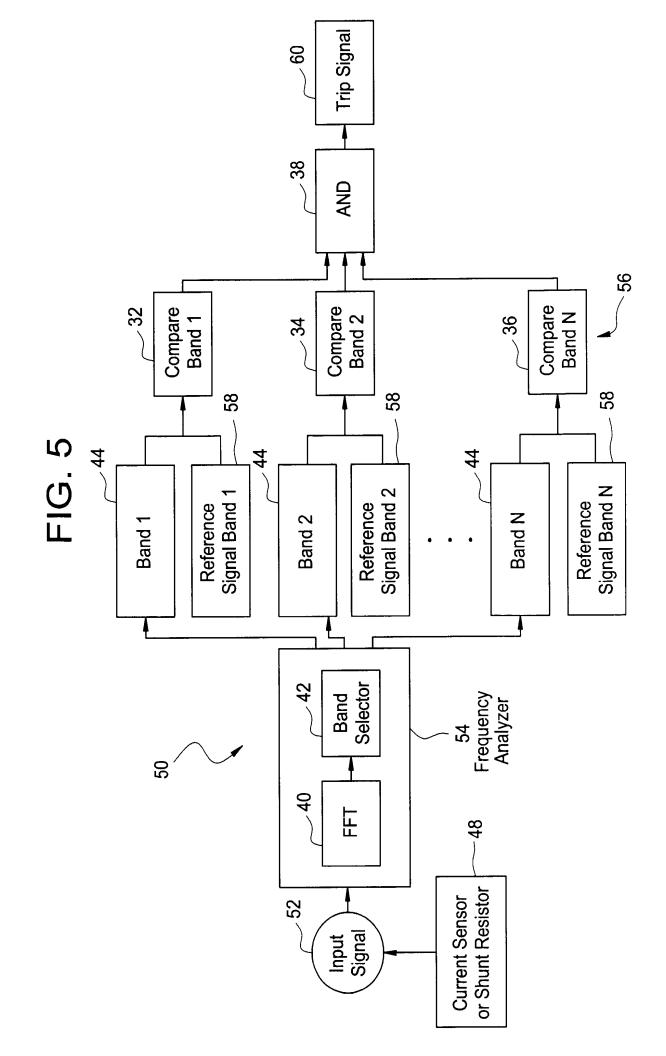


FIG. 6

FFT of Drill Load

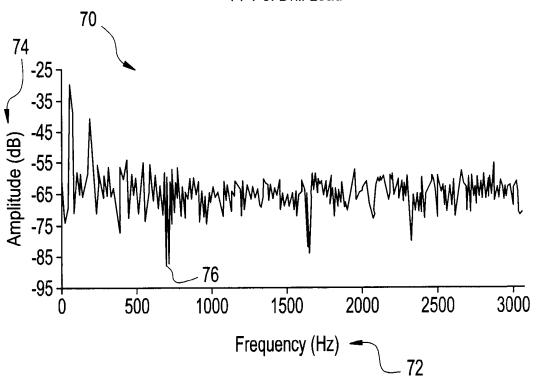


FIG. 7

